

## ABSTRACT

### TRACK-FOLLOWING SYSTEM FOR THE RECORDING/READING OF A DATA MEDIUM AND RECORDING MEDIUM

The invention relates to a system for reading a magnetic medium having several tracks of data which can be read in parallel, ~~and comprising with~~ a detection device having at least as many detectors as there are tracks, making it possible to read simultaneously and at regular intervals a sample of data on each track. This system furthermore ~~comprises: includes~~ ~~[[•]]~~ a processing circuit (M1) ~~receiving configured to receive~~ each sample of data ( $x_i$ ) to be processed from each track  $[[,]]$  together with sample  $[[x_{(i-1)}]]$  of a first adjacent track and ~~the sample~~  $[[x_{(i+1)}]]$  of a second adjacent track  $[[,]]$  and ~~to calculating calculate~~ the cross-talk affecting the sample of data to be processed due to the adjacent tracks  $[[;]]$   $[[•]]$  an ~~An~~ integration circuit (I1) ~~receiving configured to receive~~ the cross-talk value ~~thus calculated by the processing circuit, integrating said integrates these values obtained at each read time, and then integrating the values obtained following at subsequent read times~~  $[[;]]$ . ~~The systems also include~~  $[[•]]$  a relative track-following control circuit (CR) ~~receiving configured to receive~~ the result of integration of the integrator circuit (I1) and ~~supplying to supply~~ a track-following control signal for the detection device.

~~Application: System for reading high density magnetic tapes.~~

### FIGURE 5